UNIVERSAL DESCALER FOR BOILER/TURBINE

All over the world the scale formation inside the boiler and turbine surface reduces the thermal transfer efficiency ,which results in more fuel like coal,nuclear and other fossil fuels.The vast scales are silicates of various metals and sometimes silicic with hydration. At present water softeners like ethylene glycol ,hydrazine hydrate,ammonia derivatives are used with limited success. However, I am offering a new method by which this problem can be addressed.

Sucrose free from sulfur,made by ion exchange method of nearly 999 % pure when introduced into the boiler feed tank dissociates into d-fructose and d-glucose inside the high temperature boiler in contact with these silicates. D-FRUCTOSE forms 'ADDUCT ' with these silicates and will remain in water or steam and will be flushed away.This completely prevents the scale formation.D-fructose neither acidic or alkaline,hence no corrosion.i do not want any patent let industry adapt after the trial for the benefit to the industry.

ADVANTAGES..

1) No scales inside the boiler or over the turbine,hence it runs on maximum thermal efficiency.

2) Furnace temperature comes down hence less coal,less water,less pollution,more carbon credit,massive boost to the gdp and economy.

3) Less temperature of the furnace means larger particle size of the fly ash ,hence less work load on electrostatic precipitator,less pollution.

4) Sucrose could be added according to the tds content of water.

5) No boiler shutdown needed.no turbine tuning needed.

5) Less stress on the tubes containing water/steam inside the furnace.

6) no pitting or corrosion of the boiler or turbine surface.

7) Sucrose is cheaply available everywhere.

8) In difficult to service areas like less developed countries, costly water softening plants can be avoided altogether. Since sucrose might be cheaper viz a viz to that of costly ion exchange water purification or reverse osmosis.So no costly water softener needed.

I have already written a book called "UNIVERSAL DESCALER" on amazon e kindle . (https://amzn.in/d/061BsVcv) and on instagram too ' antiviraldrug"

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